

Ch #12 136

An Essay
on
Acute Peritonitis

Published March 24
1825

Acute Peritonitis

by
Gustavus B. Campbell
of Virginia

when
water
but he
on it
of an in
to mount
has obse
rougher
the pu
the case
is the
violent
it, & ag
hardly
duration
ticed he
The ho
domen
the tem
degree?

Peritonitis is an inflammatory affection of the Peritoneum, that serous membrane which affords a lining to the parietes of the abdomen, as well as an exterior coat & a means of attachment to its viscera. It is, also, attended by general febrile symptoms; & it has, therefore, all the essential features, which entitle a disease to a place in the Order Phlegmasiae & Clap Pyrexiae of Cullen.

Peritonitis is divided into the Acute & the Chronic. It is the Acute species, that constitutes the subject of this Thesis; & my remarks will be restricted to that form of the disease, to which both sexes are rendered liable by the operation of common causes.

History of Acute Peritonitis. An attack of Acute Peritonitis usually commences with rigors. When reaction takes place, there is fever, marked by thirst; a dry state of the tongue & fauces; a pulse, accelerated, corded, & contracted. The patient soon feels a considerable degree of pain & heat in the abdomen;

but can't
back, no
big boy
writing,
she face
the tongue
in appear-
ance, & on
the St
constant
unconscious-
ness, the
natural
law. The
inclination
to?

when pressure is made on that part, manifests a greater or lesser degree of tenderness, which may either be limited to a part of the abdomen, or spread over it universally. Though the tongue & faeces are in general dry, as already stated, it is proper to mention, that in some rare instances, they have been observed to retain their natural moisture throughout the course of the disease. The state of the pulse also is subject to great variety at the onset of the disease: while in most cases, it possesses the character of inflammatory action, to a very violent degree; in others, it is scarcely perceptible; & again, in others it is so low, as to be hardly perceptible. The cases which present these deviations of the pulse, will be particularly noticed hereafter.

The local uneasiness increases rapidly, & the abdomen swells. Within twelve or twenty-four hours, the tenderness of the abdomen is raised to such a degree, that the weight of the bed clothes is then

of a go
old clai
countries
based on
acted on
upon the

- A
to a depa
of the P.
interior.

times are
This is
of a plan
canal, on
has invi
also. Th

are, muc
hances of
than by a
fused in
asulate
are break
tough, etc.

intolerable. The abdomen is now tense. The pulse beats from a hundred & twenty, to a hundred & thirty strokes in a minute. The respiration much quickened. The strength, much depressed. The patient cannot bear the least motion; but lies on his back, with the knees drawn up. The skin is dry & hot; though in instances of much nausea & vomiting, or of great pain, it is occasionally damp. The face is flushed, & expresses anxiety. The eyes are red. The tongue is white, as well as dry. The thirst is great. The appetite is diminished. And the patient is restless, & gets but little sleep.

The Stomach, in most cases, is much affected; & a constant sickness, with a vomiting of bile, is experienced. — The intestines, sometimes constipated, at others, unnaturally loose, are at others still, perfectly regular. The bladder, also, is affected; & there is a constant inclination to pass urine, attended however with little effect.

As the disease advances, the symptoms are all aggravated. At length, a total cessation of pain suddenly takes place; an omen, which indicates almost certainly, a fatal issue. The pulse sinks, but moves so rapidly as not to be counted. A dark matter, like

In Pictou
Progress
abstinen^s
other of off
in the conte
and full
ation, easi
ally, the p
is affected
disease.

Diacon
by the ab
the lower pa
sustaining
It is distin
by the place
Especially
miles dis
down righ
Catholic
to Pictou
which reg
less, shoen

coffee grounds, is ejected from the stomach by singultus. Cold, clammy sweats break out. The extremities are cold. The countenance is collapsed & haggard. The urine & feces are passed involuntarily. And difficult respiration is succeeded by the fatal event, which usually takes place before the eighth day.

Appearances on Dissections.

On dissection, the marks of inflammation appear, on every part of the Peritoneum, with the exception, as has been stated, of the anterior. The Peritoneum is thicker, & less transparent. Its arteries are injected with red blood, in most cases, but occasionally, there is found no vestige of the kind. Commonly there are no traces of inflammation in the abdominal muscles. In the intestinal canal, on the contrary, it is sometimes seen, that the inflammation has involved, not only the muscular, but the more interior coats also. The sides of this canal, & the duplicatures of Peritoneum, are much thickened by extravasation into their cellular membrane. The viscera of the abdomen are agglutinated to one another by coagulating lymph. A brownish fluid, like serum, is effused into the Peritoneal cavity, & has mixed with it, shades of coagulating lymph, & sometimes pus. Marks of gangrene however are but seldom visible. These appearances, independently of symptoms, clearly shew that the disease is an inflammation of

date. Price
idemone
alme or
sequence of

The paper
and dist
to large am
the spirits of
height of ex
apparatus to
disease, pa
tion.

The plan
are strong
it is my
to more
ful sanc
on of the c
ity of c

the Peritoneum.

Prognosis. — This is unfavorable, when the pain in the abdomen suddenly ceases; the pulse sinks; & there is evidence either of effusion, or of gangrene. The following appearances, on the contrary, are to be regarded as favorable. The pulse becomes fuller, softer, & less frequent; the skin, moist & cool; the respiration, easier; the pain & tension of the abdomen, diminished gradually; the patient able to maintain a sitting posture; & the bowels affected with a gentle diarrhoea towards the close of the disease.

Diagnosis. Peritonitis is distinguished from Enteritis, by the absence of that tenesmus, which exists in Enteritis, when the lower part of the intestines are inflamed; & by the local pain sustaining no relief from faecal evacuations.

It is distinguished from Colic; by the absence of tortina; by the pain being augmented, rather than abated, by pressure; & especially, by the difference of posture; the patient, in Peritonitis, abhors chocking to lie on his back, with his knees drawn up; & in Colic, on his abdomen. —

Causes. Among the causes which give a predisposition to Peritonitis, are, habits of intemperance; occupations which require the body to be habitually bent, as that of tailors, skinmakers & wash-women; & a habitual exposure to cold.

unction
placed as
it employ
s producen
tient. The
face is a
le which
the justice
truly by i
to pulse
ability, p
aneo. It
judging op
ward to
nation. A
d than on
by the de
time. /
If the pa
of blood.
my sense
pervenom,
located a

acute Peritonitis is excited by acts of violence, done to the abdomen; but oftenest, by cold applied for some time, either alone or combined with moisture. Thus it may be the consequence of sleeping either in damp sheets or on the ground.

Treatment

The proper treatment of Peritonitis has been a subject for much dispute. The Medical School of England recommends the large employment of Opiates. Dr. Brereton of Dublin employs the Spirits of Turpentine, in Suppurative Peritonitis, at the very height of inflammation. While others, selecting a plan, which appears to be obviously deduced from the pathology of the disease, rely for its cure chiefly on abundant depletion.

The plan of treatment now to be detailed, is to myself more strongly recommended than any other: not only is it in my own opinion well suited to the case; but in its more important points at least, it derives a powerful sanction from the experience of the present Professor of the Institutes & Practice of Physic in the University of Pennsylvania.

topical B
I would
applied to
ely, a libe
my useful
right to b
in some
final offic
removed
that the te
my service
willing
to kind
tried from
Bulgaria
under a
treaty gen
3.8% or a
an infusion
administered
have been
used the
administered

Venesection. In Acute Peritonitis, the lancet is to be considered as the patient's sheet-anchor; & in the extent of its employment, it is to be regulated by the effects which it produces on the disease, & on the constitution of the patient. The appearance of debility existing in the early stage is deceptive, & depends on the violence of the attack, by which the powers of the system are oppressed.

The justice of this remark will be illustrated satisfactorily, by the effect of a liberal detraction of blood; as the pulse will then be found to rise, & the apparent debility, previously existing, will be proportionally removed. It is the advice of Dr. Nathaniel Chapman, that in judging of the propriety of Venesection, we should pay no regard to the pulse, which is always depressed in proportion to the violence of the disease. I should be governed than entirely, by the existence of the stage of excitation, & by the degree of severity in the local pain & other symptoms.

If the patient be an adult, take at first 3XX or 3XXX of blood. If this detraction should ^{produce} on the symptoms no very sensible effect, or if that effect were evidently an improvement, the operation may be advantageously repeated within a few hours.

had a tear
towards the
left comba
not tend.
property o
is of adapt
serty of or
measure in
which it
continuity
as it is to the
and to the
of Dr. Alme
abdomen
by protection
the operat
able by so
in these n
cardiac
open, but
they may
it warn
soothing,

Topical Blood-letting.—Topical blood-letting is next to be resorted to, & is performed by means of leeches or of cups applied to the abdomen. As in local inflammations generally, a liberal abstraction of blood in this way will be very useful. It has been conceived that this measure ought to be deferred, until the pain of the abdomen has been somewhat diminished; or at least, until the constitutional effects of the local derangement have been partially removed, by venesectio[n]. But I should not suppose that the trivial irritation of the measure, would produce any serious effect on the general excitement; & I should be unwilling, for the sake of preventing a slight effect of the kind, to forego the probable advantage to be obtained from an early use of the remedy.

Purgatives. Immediately after Venesection, I would administer a dose of Calomel, which the torpid state of the bowels generally requires to be large. The dose may be gr. XX or even half a Drachm. This is to be followed by an infusion of Senna with Salts, or Epsom Salts alone, administered every hour, until several copious evacuations have been obtained. If the stomach be so irritable as to reject the Calomel, a large cathartic enema may be administered. Evacuating the lower part of the intestines

to discuss
a bag of
Hay shown
not as 7
Daphne
is the name
of Dr. Chas.
It does a
lot of work
Indonesian
this year
would go
in corner
the mean
all the so
done, it
money a
I would
time or
Vedicated
but are to
of the case
by water

has a tendency to favour the retention of purgations afterwards exhibited by the mouth. The Calomel may also have combined with it a little Opium, which will does not tend to constipate.

I know that the propriety of active purging, in acute Peritonitis, is a matter of dispute. It appears to me however, that, independently of other reasons, the acknowledged utility of the measure in all other cases of Phlegmasia; & the service which it has done in the analogous case of Puerperal Peritonitis, are fully sufficient to warrant us in extending it to the case under consideration.

With regard to the use of purging, I would adopt here, the rule of Dr. Armstrong: & so long as there are pain & tension of the abdomen, a quick pulse, & offensive stools, I would steadily proceed. While the bowels were not under the operation of a purgative, I would keep them soluble, by small doses of saline mixture given every two or three hours.

Emollient Enemata will assist in keeping the bowels open; but are useful chiefly as internal fomentations. They may consist of warm water, or flaxseed tea.

Warm fomentations are in their immediate effect soothing; & ultimately make a great impression on

longer -
is likely to be
the *Efferves-
cium*,
Diet. -
use of Acu-
nic, etc.
early wate-
r. Thus
let our reg-
is stage of
works of go-
for, we see
disease. -
symptoms of
like to diff-
fly is the
in this case
by. But in
the *Spuraf-*

the disease. Among the best are, a bread & milk poultice; a bag of mush; or flannels wrung out of hot water. They should be so large as to cover the abdomen, & as hot as the patient can bear them.

Diaphoretics. next in importance to bloodletting is the inducing of perspiration. In the strong language of Dr. Chapman, this measure often acts like a charm. It does good here by the centrifugal determination which it gives to the blood, thus relieving the vessels of the Peritoneum of a portion of their burthen. For this purpose, I would employ the vapour Bath, & would assist its action by some one of the Diaphoretics combined with Opium. Previously to depletion, by the measures already recited, Opium would aggravate all the symptoms; but after this has been sufficiently done, it will do good, as well by its diaphoretic tendency as by relieving pain & morbid vigilance. I would employ the Dower's Powder ~~one gr.~~ & every three or four hours.

Vesication. Blisters, well timed are of much advantage; but are too irritating to be employed in the commencement of the case. They should be preceded by copious depletion & by warm fomentations. When applied, they should be

is however
obliged to
Hould a
united par
we should
nation; for
one of the a
should beca
reduced we a
complete re
sition. —

indisposition
is very app
and shews he
looks the other
way. — I can
make of this c
very eminent
of our Par
of the national

large. — To relieve irritation of the Stomach, & to check bilious vomiting, mucilaginous drinks are advised, & the Effervescing draught, with fifteen or twenty drops of Laudanum, if necessary, may be exhibited.

Diet. — It is unnecessary to say that the diet, in the first stage of Acute Peritonitis, ought to be strictly Antiphlogistic. It should consist of such articles as toast water, barley water, rice water &c.

Thus have I detailed all the important measures, that are required for the treatment of Acute Peritonitis in its stage of Excitement. It is in this stage only, that our efforts afford any prospect of success; & in this stage, therefore, we should bring all our resources to bear upon the disease. —

When the pulse sinks, & the other symptoms of Collapse supervene; depletion should give place to diffusible Stimulants. The best of these probably is the Spirits of Camphrine. Dr. Chapman says that in this case, he has repeatedly seen it of decided utility. But it is necessary to give it in the dose of a ^{few} ~~large~~ spoonful, every two or three hours. It is to be a jist.

that w

He

ed however, with Vol. Alkali & Wine; & with Sinapisms
& Blisters to the extremities.

Should Acute Peritonitis be marked at its onset, by a pulse
scarcely perceptible, & by other signs of extreme prostration;
we should consider it as a case, not of exhaustion, but of op-
pression; for it owes its peculiar character entirely to the vir-
tue of the disease. Here, we are first to make use of small,
upright bleedings, the Warm bath, & Diaphoretics. When by these
measures, we have roused the energies of the system, & established
a complete reaction, we may freely resort to more copious de-
pletion. —

Peritonitis sometimes begins with slight
tenderness of the abdomen; the pulse scarcely affected, very little
fever, & no appearance whatever calculated to alarm. But the se-
quel shews how insidious is this aspect. For suddenly, the pulse
sinks, the strength fails, & the case proceeds rapidly to a fatal
issue. — A case of this kind occurred last summer in the Alms-
House of this city. It was mistaken by the prescribing physician,
a very eminent practitioner, for simple constipation. I was my-
self present at the post mortem examination; when the evidence
of Peritoneal inflammation was found to be very satisfactory.

in the four
the last few
and to have
especially
one of the
most have
page number
in the state
at there

let see often
likely have
and, in the
abdomen and
inflammation
a disease as
afe to the
as sometimes
one of a disease
I found that
I suffer from
the abdomen
diseases of